

ERASABLE/REWRITABLE OPTICAL DATA STORAGE
WITH PHOTOREFRACTIVE POLYMERS

ABSTRACT OF THE DISCLOSURE

A method of erasable/rewritable optical data storage is provided in which a laser beam from a laser (10) operated in either a pulsed or continuous wave mode is focussed by an optical system (11-18) onto a photorefractive polymeric material (32) to cause two photon excitation of the material to record data which may subsequently be erased by illuminating the material with radiation having a wavelength in the ultraviolet or visible spectrum to erase the recorded data. new photorefractive polymeric materials having a relatively narrow absorption band for use in the method are also disclosed.

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